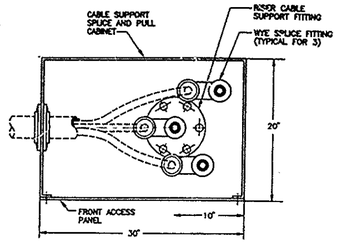
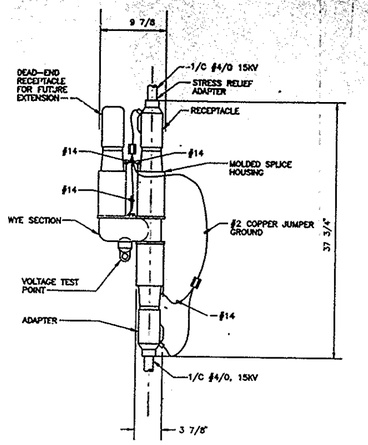
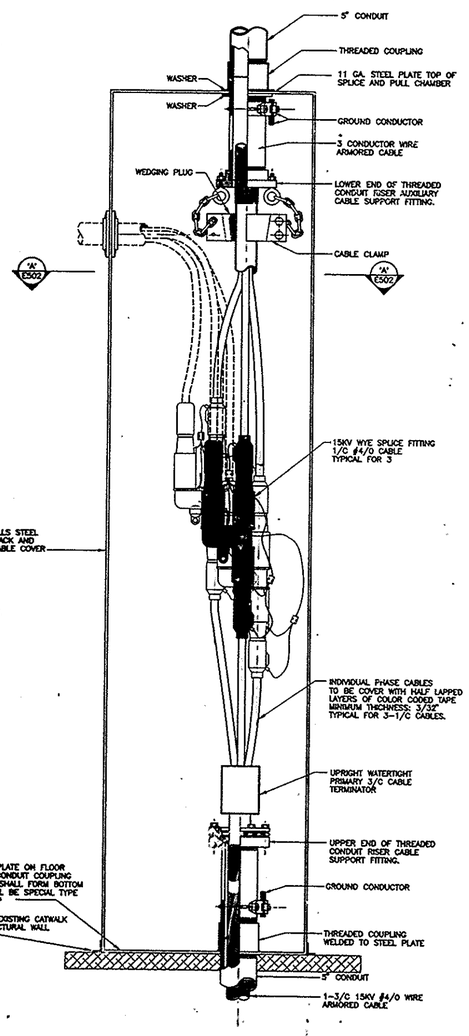


SECTION "A-A"
NO SCALE



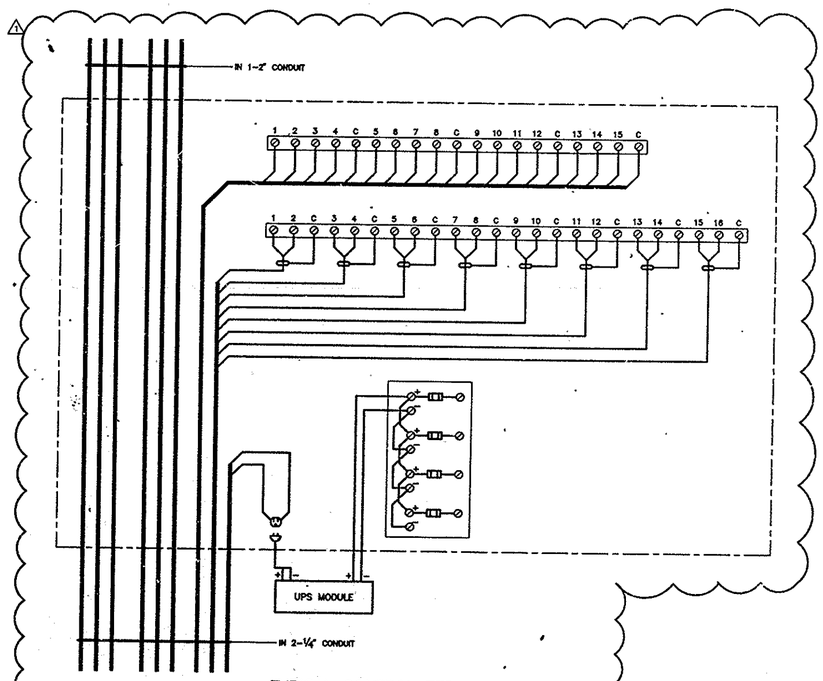
15KV-WYE SPLICE (TYPICAL)
NO SCALE



TYPICAL INSTALLATION DETAIL OF 15KV ARMORED CABLE SUPPORT SPLICE AND PULL CABINET
NO SCALE

NOTES:

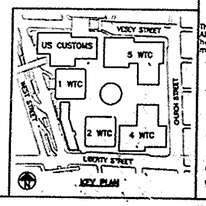
1. WYE SPLICE FITTINGS SHALL BE ELASTIMOLD 650Y FOR USE ON 1/C #4/0 CABLE PF THREE PHASE 15KV 95KV BIL SYSTEM.
2. THE SPLICE SHALL BE CAPABLE TO WITHSTAND 35KV, 60HZ, ONE (1) MINUTE; 55KV DC, 15 MINUTES; CORONA: 11KV EXTINCTION.
3. CURRENT RATINGS SHALL BE 600 AMPS RMS CONTINUOS, 900 AMPS, RMS 8 HOUR OVERLOAD, WITHSTAND MOMENTARY CURRENT RATINGS OF 27000 AMPS RMS, SYM, 4 SECONDS, 40,000 AMPS, RMS, ASYM, 12 CYCLES.
4. WYE SPLICE CABLES INSTALLATION: AFTER PROPER CABLE PREPARATION, ADAPTERS AND HOUSING ARE POSITIONED ON THE CONDUCTOR ENDS. SPADE TERMINALS SHALL BE CRIMPED TO THE CONDUCTOR AND THE CONDUCTOR BOLTED TO WYE SECTIONS. JOIN THE HOUSING SECTIONS TOGETHER TO COMPLETE THE SPLICE. THE ASSEMBLY TOOL (ELASTIMOLD 650ATY) OBTAINED WITH THE WYE SPLICE SHALL BE USED WHEN INSTALLING THE SPLICE.
5. HALF LAPPED LAYER OF ARC FIREPROOFING TAPE TO BE APPLIED TO THE ENTIRE SECTION OF EXPOSED CABLES IN EACH PULL AND SPLICE CABINETS AND BOXES AFTER CABLE INSTALLATION IS COMPLETED.
6. WYE SPLICE ASSEMBLY SHALL BE PERFORMED AFTER THE UPPER SECTION OF THE CABLE INSTALLATION IS IN PLACE AND CABLE SUPPORTS PERMANENTLY AT THE NEXT UPSTREAM CABINET.
7. 15KV FEEDER RISER WIRE ARMORED CABLE INSTALLATION PROCEDURE AT CABLE SUPPORTS AND SPICE CABINETS SHALL BE AS FOLLOWS:
   a) PULL ARMORED CABLE UP INTO CABINET FROM LOWER CABINET LOCATION AND APPLY TEMPORARY CABLE SUPPORTS.
   b) STRIP WIRE ARMOR, WRAP AROUND THE CABLE SUPPORT FITTING. ASSEMBLE AND POSITION CABLE SUPPORT FITTING OVER CONDUIT.
   c) ASSEMBLE AND POSITION LOWER AUXILIARY CABLE SUPPORT FITTING AT END OF UPPER CABLE INSTALLATION.
   d) INSTALL 3/C WATERTIGHT CABLE TERMINATIONS AT UPPER CABLES AND LOWER CABLE ENTRANCE.
   e) INSTALL CABLE SPLICE FITTINGS.
   f) APPLY ARCPROOFING AT EXPOSED CABLE IN CABINET.
   g) WHERE INDICATED ON DRAWINGS PROVIDE INSTALLATION OF WYE SPLICE TO SUBSTATIONS BY REMOVING DEAD-END RECEPTACLE COVER AND ATTACH 1/C CABLE TO SPLICE FITTING WYE PORT.
8. SPLICE AND PULL CABINET SHALL BE ATTACHED AND SECURED TO THE EXISTING CATWALK AND STRUCTURAL SUPPORT. SEE STRUCTURAL DRAWINGS FOR ATTACHMENT DETAILS.
9. 15KV 3/C WIRE ARMORED RISER CABLE AND 1/C NON-ARMORED CABLE FOR INSTALLATION IN CONDUIT ARE AUTHORITY FURNISHED EQUIPMENT.
10. 15KV 3/C WIRE ARMORED RISER CABLE AND 1/C NON-ARMORED PARALLELED-LAY CABLE ARE AUTHORITY FURNISHED EQUIPMENT.
11. FOR RISER CONDUIT STRUCTURAL SUPPORT APPLICATION DETAILS SEE DWG. S5-05.
12. FOR 15KV CONDUIT ROUTING AND SPLICE AND CABLE SUPPORT CABINET LOCATIONS SEE DISTRIBUTION SYSTEM RISER DIAGRAM DWG. E1-02.



TYPICAL CONTROL TERMINAL STRIP CABINET
NOT TO SCALE

NOTES:

1. FOR NUMBER AND SIZE FOR CONDUIT AND CABLE REQUIREMENTS SEE RISER DIAGRAM DRAWING E1-02.
2. UPS MODULE SHALL BE LIEBERT MODEL NUMBER GXT 700M7-120; 120VAC, OUTPUT 120VAC.
3. UPS INSTALLATION SHALL INCLUDE EQUIPMENT RACK MOUNT ENCLOSURE WITH SLIDE RAILS OR BRACKETS ATTACHED AND SUPPORTED BY SUITABLE WALL MOUNTED SHELF. MOUNT UPS ADJACENT OR ABOVE THE TERMINAL STRIP CABINET AND CONNECTED TO GROUNDED TYPE RECEPTACLE PROVIDED IN THE STRIP CABINET.



THE PORT AUTHORITY OF NY & NJ

ORIGINAL SIGNED & SEALED BY N.Y. P.E. (OR R.A.)

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I HEREBY CERTIFY THAT THIS IS A TRUE AND CORRECT COPY OF ONE OF THE CONTRACT DRAWINGS CONSTITUTING A PART OF CONTRACT NO. WTC-945.071 IN THE FORM IN WHICH SAID DRAWINGS EXISTED AT THE TIME THE SAID CONTRACT WAS EXECUTED BY

DATE 11/6/98 Suttan A. Aslan SPEC WRITER

DATE 11/6/98 P.L. Simeone ENGINEER OF DESIGN

No.	Date	Revision	Approved
1	12/12/97	DET. CTRL. STP. CAB.	
	11/17/97	ISSUED FOR BID	

Engineering Department
Design Divisions

The World Trade Center

Title

STANDBY POWER
5 WORLD TRADE CENTER

ELECTRICAL

2 WTC 15.0KV CABLE SPLICE AND SUPPORT BOX DETAILS

This drawing subject to conditions in contract. All inventions, ideas, designs and methods herein are reserved to Port Authority and may not be used w/out it's written consent.

Designed by	Drawn by	Check by
F.F.P.	M.A.R.	

Date	Scale
11/17/97	NONE

Contract Number: WTC-945.071
Drawing Number: E5-02